



MUTHU SURGICALS

101 ANNAI COMPLEX, NEW BUS
 STSND, PERAMBALUR -621212
 GST NO : 33DDEPM1487D1ZQ
 UDYAM REG NO : TN-16-000072
 PHONE NO : 8056356534

CALIBRATION CERTIFICATE

Certificate No: MS115\MPT072023

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Customer Name & Address

THE MEDICAL OFFICER,
 ULKOTHAI PHC,
 MEENSURUTTI (BLOCK)
 612901,

Date of Receipt	28-08-2023
Date of Calibration	28-08-2023
Due Date for Calibration	29-08-2024

Details Of Unit Under Calibration

Description	Micro Pipette	Make	THERMO FISHER SCIENTIFIC
Range	100-1000GL	Model	FINNPIPETTE F3
Resolution		Material	PVC
Serial Number	RW02935	Operating Range	
V		Condition of UUC	
Cal. At	Mechanical Lab	Instrument Location	

Environmental Condition

Calibration Method Used

Temperature (°c)	23.9	Humidity (%RH)	55	National / International Standard	ISO 8655-6:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°0)	21.6	Cal Procedure No	SBS/CP/ML/08

Standard Used

Sl. No.	Description	ID.No. / SL No.	Certificate No.	Make/Model	Traceability	Valid til
1	Electronic Semi Micro Balance	15112918	TVCSPL21/12/1587-01	& GH-252	National Standards	12-08-2024

Z Factor. 1.00319

Result of Calibration in gl

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	99.72	9.74	99.76	99.77	99.78	99.76	-024	0.02	0.47
		99.76	99.77	99.76	99.77	99.78				
2	100	498.76	498.78	498.77	498.76	498.77	498.77	-1.23	0.01	0.47
		498.77	498.76	498.76	498.77	498.76				
3	1000	999.82	999.84	999.86	999.87	999.86	999.86	-0.14	0.02	0.47
		999.87	999.87	999.86	999.87	999.87				

Remarks

- 1.This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- 2.The user should determine the suitability of the instrument for its intended use.
- 3.The recalibration interval should be determined on the user requirement.
- 4.The results stated in this certificate relate only to the item calibrated.
5. Equipment used for Calibration were calibrated & traceable to National & International Standards
- 6.The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00 .
7. Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By

(Calibration bio medical Engineer)
N.MUTHAZHAGAN

